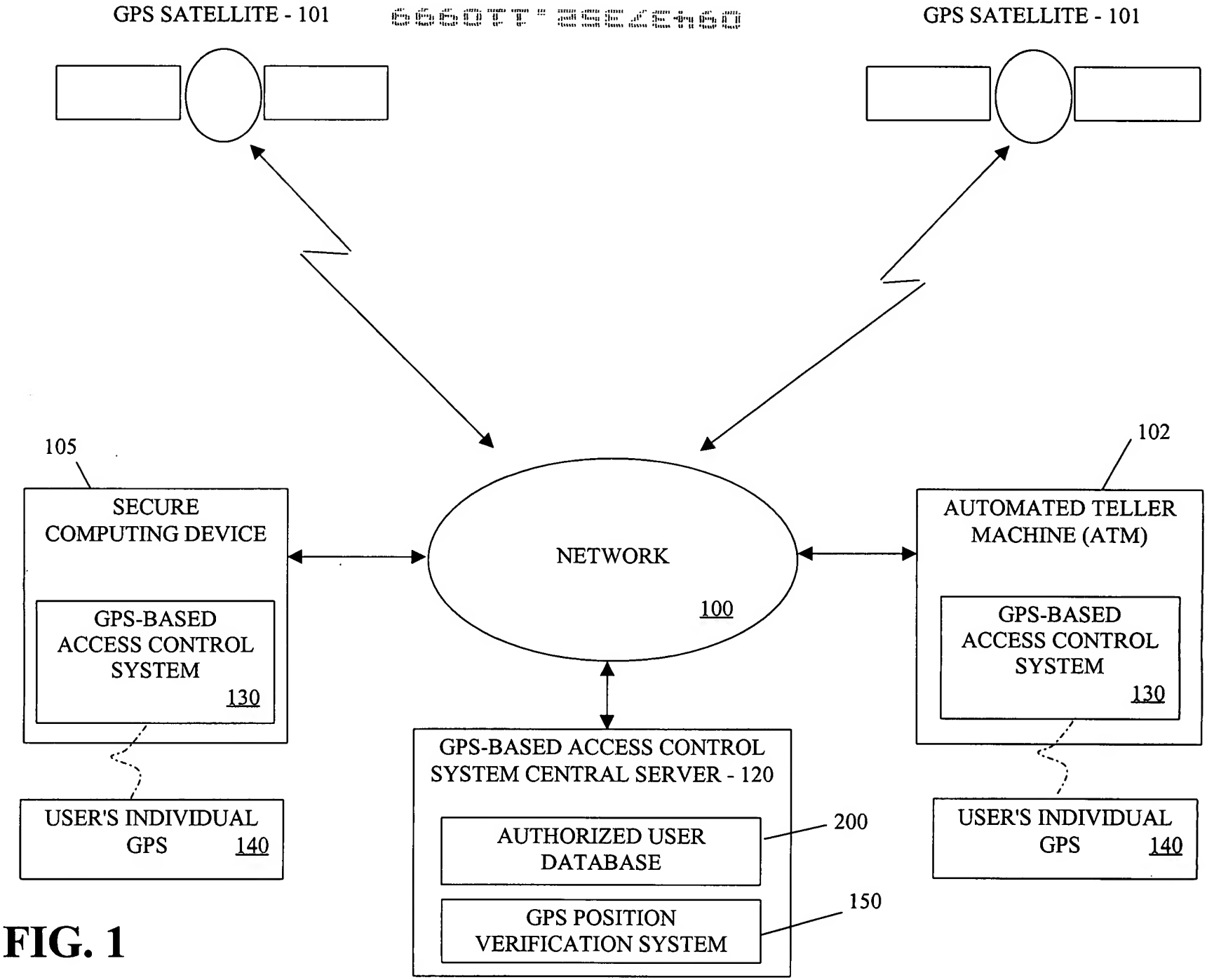
GPS SATELLITE - 101
GPS SATELLITE - 101
105
SECURE COMPUTING DEVICE
GPS-BASED ACCESS CONTROL SYSTEM 130
USER'S INDIVIDUAL GPS 140
NETWORK 100
102
AUTOMATED TELLER MACHINE (ATM)
GPS-BASED ACCESS CONTROL SYSTEM 130
USER'S INDIVIDUAL GPS 140
GPS-BASED ACCESS CONTROL SYSTEM CENTRAL SERVER - 120
AUTHORIZED USER DATABASE
200
GPS POSITION VERIFICATION SYSTEM
150

FIG. 1

AUTHORIZED USER DATABASE -- 200

	USER 240	PASSWORD 245	GPS IDENTIFIER 250
205			
210			
215			
220			

FIG. 2

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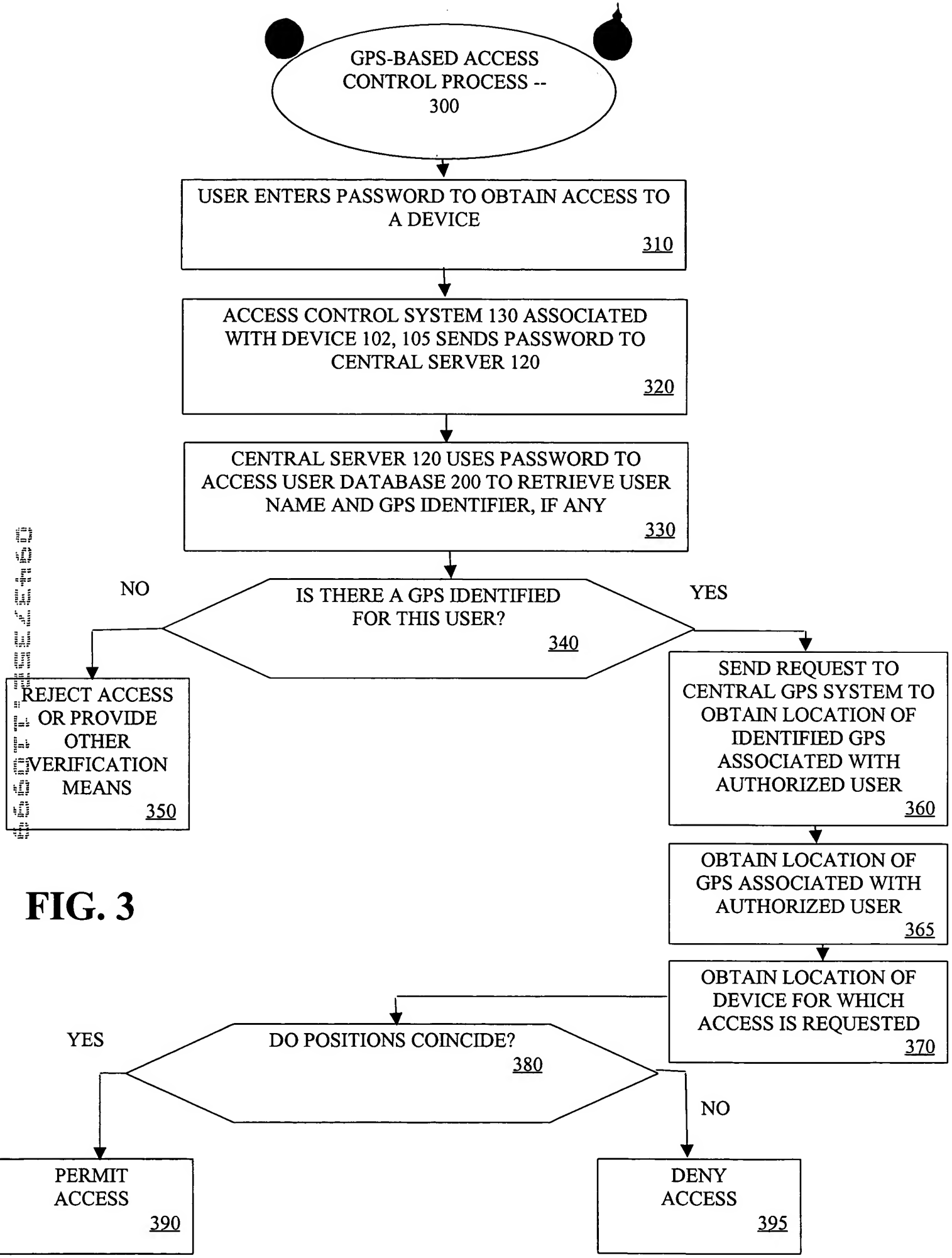
GPS-BASED ACCESS CONTROL PROCESS -- 300
USER ENTERS PASSWORD TO OBTAIN ACCESS TO A DEVICE 310
ACCESS CONTROL SYSTEM 130 ASSOCIATED WITH DEVICE 102, 105 SENDS PASSWORD TO CENTRAL SERVER 120 320
CENTRAL SERVER 120 USES PASSWORD TO ACCESS USER DATABASE 200 TO RETRIEVE USER NAME AND GPS IDENTIFIER, IF ANY 330
IS THERE A GPS IDENTIFIED FOR THIS USER? 340
NO
YES
REJECT ACCESS OR PROVIDE OTHER VERIFICATION MEANS 350
SEND REQUEST TO CENTRAL GPS SYSTEM TO OBTAIN LOCATION OF IDENTIFIED GPS ASSOCIATED WITH AUTHORIZED USER 360
OBTAIN LOCATION OF GPS ASSOCIATED WITH AUTHORIZED USER 365
OBTAIN LOCATION OF DEVICE FOR WHICH ACCESS IS REQUESTED 370
DO POSITIONS COINCIDE? 380
YES
NO
PERMIT ACCESS 390
DENY ACCESS 395

FIG. 3